

Date: Thu, 11 Mar 93 23:43:30 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #309
To: Info-Hams

Info-Hams Digest Thu, 11 Mar 93 Volume 93 : Issue 309

Today's Topics:

 930 vs 940 vs 765
 DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY
 Help building portable GPS antenna
 Home Made antenna
 HTX-202 MODS ??????
 In Defense of HRO (Re: Ham Radio Outlet incident)
 Kenwood TH78A vs. Alinco DJ580
 Motorola HTs
 Need info on transistor
 too darn big!
 Tube Trivia: 811A
 Uniden reply comments to FCC docket 93-01

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 11 Mar 93 23:44:40 GMT
From: usc!hacgate!dunes!tony@network.UCSD.EDU
Subject: 930 vs 940 vs 765
To: info-hams@ucsd.edu

I'd like to hear from those of you that have used, owned or both about the ts930,
teh ts940 and the IC765. What do you think of the 930 vs the 940. Then what do you
think of the 930/940 vs the ic765. I'd be interested in hearing any views.

--

Know thy Self! (if you need help, call the C.I.A.)

---- The opitions expressed here are mine and have nothing to do with Hughes

Aircraft Co. -- So there! tony@hacgate.hac.com

Date: Thu, 11 Mar 1993 18:34:20 GMT
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcso!
perry@network.UCSD.EDU
Subject: DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY
To: info-hams@ucsd.edu

> I am desperate to find out if it is legal to own a ham radio
> that has been modified to TRANSMIT out of band.
> ie. a Yaesu FT-23R that can be modified to transmit between
> 140-164 MHz...I think.

It is legal for a ham to own an out-of-band radio because we do experimentation.

Think about transverters - what comes out of the radio isn't necessarily what goes to the antenna. For example, mix 146MHz with 300+ MHz and you are on the 440 band. A common method for generating SSB on VHF/UHF uses an opened-up HF rig and a transverter.

Perry / AA0ET

Date: 11 Mar 93 15:17:27 GMT
From: opel!slc1!vk2bea!michael@uunet.uu.net
Subject: Help building portable GPS antenna
To: info-hams@ucsd.edu

In article <C3n0x0.432@news.rich.bnr.ca> bjgrier@bnr.ca (Brian Grier) writes:
>How about the formula for a dipole?
>
>A four inch dipole, mounted vertically, use the case as one side of the
>dipole, does not sound like a very big antenna.
>

The problem with a dipole is two-fold. First the satellites use R-Hand circular polarisation so at best you are throwing away 3dB and a dipole doesn't give you the hemispherical pattern that is optimal for GPS.

What is commonly used is either a small 'volute' or quadrafilliar helix or a microstrip patch. The commercial patches are sometimes built on ceramic to reduce the size (inversley proportional to the square root of the dielectric constant). One can easilly build a patch on Duroid at home, and feed it with a microstrip hybrid for CP. If you go to

the library and look through IEEE A&P transactions, there are many good articles on the subject. I find that the circular patch fed with probes through the ground plane work well, though a little less mechanically neat than the edge fed patches. (Then again you can find a 50 ohm feed point, rather than a Hi Z edge feed impedance).

If the original poster is interested in a circular patch, I wrote a program that determines all its dimensions and feed locations that he is welcome to.

```
--
Michael Katzmann                > Broadcast Sports Technology Inc.
~~~~~                          < Crofton, Maryland. U.S.A
Amateur Radio Stations:         >
NV3Z / VK2BEA / G4NYV / AAR3VK < opel!vk2bea!michael@uunet.uu.net
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Date: Thu, 11 Mar 1993 22:20:28 GMT
From: mcsun!fuug!anon@uunet.uu.net
Subject: Home Made antenna
To: info-hams@ucsd.edu
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I am so embarassed to ask this, I am posting anonymously. 8-)

Here is a "beginner" question for ya. I have a 2-meter rig that I would like to attach a better antenna on to. just so I can listen to the locals a bit better .. would it be crazy to thing I can use coax (RG-58) with BNC connectors to act as a temporary antenna? One additional question, I assume this would have to be a certain resistance .. so would soldering a 50 ohm resistor across the end (the end not connected to the radio, of course) be sufficient to allow the coax to be "functional" as an antenna?

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To find out more about the anon service, send mail to help@anon.penet.fi.
Due to the double-blind system, any replies to this message will be anonymized,
and an anonymous id will be allocated automatically. You have been warned.
Please report any problems, inappropriate use etc. to admin@anon.penet.fi.
*IMPORTANT server security update*, mail to update@anon.penet.fi for details.
```

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Date: 12 Mar 93 02:10:37 GMT
From: munnari.oz.au!metro!mippet.ci.com.au!eram!dave@network.UCSD.EDU
Subject: HTX-202 MODS ??????
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To: info-hams@ucsd.edu

In article <1993Mar7.231729.12415@jupiter.sun.csd.unb.ca>,
unbham@jupiter.sun.csd.unb.ca (UNBARC) writes:

| I know this question has been asked many times ...

Then maybe one day you'll pay attention to the bloody answer!

--

Dave Horsfall (VK2KFU) VK2KFU @ VK2RWI.NSW.AUS.OC PGP 2.1
dave@esi.COM.AU ...munnar!esi.COM.AU!dave available

Date: Thu, 11 Mar 1993 19:42:43 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
Subject: In Defense of HRO (Re: Ham Radio Outlet incident)
To: info-hams@ucsd.edu

grund@pyrite.SOM.CWRU.edu (Victor Grund) writes:

> In article <1993Mar10.094833.1238@n5ial.mythical.com> jim@n5ial.mythical.com
> (Jim Graham) writes:

>

> aren't they the store that sends out a whole catalog full of stuff,
> but not a single price anywhere in there? (can't say for sure, because
> if they are, their catalogs are all in the trash....)

>

> I have a simple policy on that---if they don't tell you the price, they
> are probably trying to hide something (until you get to the counter),
> and I just don't bother. if they don't have prices on anything in the
> store, I'd never go to that store. I'll go to another store, or buy via
> mail order...either way, I'd buy from somewhere else.....

>

> It is worth mentioning that I've had nothing but good experiences with
> HRO. In December, I bought an Alinco 580 HT from them. About a day
> after it arrived at my house, the transmitter portion of the radio
> stopped working. A simple 5 minute phone call to HRO was all it took
> for them to send USP back out to pickup the radio and send a new one
> in its place. All I did was box up the old radio and wait for the UPS
> guy. I didn't even pay return shipping, highly unusual for a mail
> order firm. The mailing delays drove me crazy, but this is par for
> the course with a mail order firm and especially understandable given
> that it was just before Christmas.

Wow! And this must have been at the Salem, NH HRO store to boot! They
gave me a pretty good runaround on my FT-5100.

> It is also worth mentioning that HRO had the lowest price I could find
> on the Alinco at the time.

True.. their prices are among the best.

Tony

```
-----  
-- Anthony S. Pelliccio, n1mpq/aa    // A man who feels sees life as //  
-- system @ garlic.sbs.com          // a tragedy, a man who thinks  //  
-----// sees life as a comedy. (This //  
-- Flame Retardent Sysadmin        // was in my fortune cookie!)  //  
-----  
-- This is a calm .sig! --  
-----
```

```
-----  
Date: Thu, 11 Mar 1993 19:45:05 EST  
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net  
Subject: Kenwood TH78A vs. Alinco DJ580  
To: info-hams@ucsd.edu
```

jfh@netcom.com (Jack Hamilton) writes:

> I passed the no-code Tech license in January, so my license should be
> arriving any week now. I suppose I should have a radio when it gets here.
>
> I want a dual-band 2m/440 handheld. A friend recently bought an Alinco
> DJ580 and likes it. I don't like its slow scan rate, and operating it is
> sometimes confusing, but it would do if there's nothing better in the same
> price range.
>
> One alternative I'm considering is the Kenwood TH78A. It's about the same
> size, and only slightly more expensive. I haven't actually used one yet
> (I'll try that this weekend), but it sounds OK from the specs.

Actually I've had a chance to use both the DJ-580T and the TH-78A. My overall impression of the Alinco is bad. Cheap construction and the radio is a total bitch to operate. The Kenwood is a nice solid rig and easy to use. Not to mention it supports alphanumeric labeling of the memories.

> There are supposedly some mods which extend the receive and transmit ranges
> (cutting diode 4 or 5, I think) on the TH78A? Has anyone made those mods?
> Any disadvantages to them? Is it possible to extend the receive without

> extending the transmit? Will the store do it for me (I don't have a MARS
> or CAP permit)?

The Alinco is also modifiable to do the same things. It's all in what
you want but I don't like Alinco rigs... a friend of mine used to buy
nothing but but he's switching to Yaesu for his next rig.

Tony

```
-----  
-- Anthony S. Pelliccio, n1mpq/aa      // A man who feels sees life as //  
-- system @ garlic.sbs.com            // a tragedy, a man who thinks  //  
-----// sees life as a comedy. (This //  
-- Flame Retardent Sysadmin          // was in my fortune cookie!)  //  
-----  
-- This is a calm .sig! --  
-----
```

```
-----  
Date: 11 Mar 1993 18:15:51 -0800  
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!mojo.eng.umd.edu!  
news.isi.com!news.isi.com!not-for-mail@network.UCSD.EDU  
Subject: Motorola HTs  
To: info-hams@ucsd.edu
```

Would someone please give me a summary of Motorola commercial HT
models available that may be tuned to the amateur bands. Specifically,
models that are available new direct from Motorola.

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--  
Jerry Gardner (jerry@isi.com)      |    "Violence is the last refuge of  
Integrated Systems, Inc.           |    the incompetent" - Isaac Asimov
```

```
-----  
Date: 12 Mar 93 05:02:28 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Need info on transistor  
To: info-hams@ucsd.edu
```

A fellow ham in the area turned up a fairly husky looking transistor in his
'not so junk' box the other day that looks like it might be useable in a VHF
amp, but we have no data on it. The part number is SD1460 and he thinks it
might be a 100watt, VHF or low VHF rated part. Possible the manufacturer is
Siliconix, but we can't find that number in any of their manuals we have on

hand. Can anybody out there enlighten us? Ratings, circuit info, what have you.

Thanks in advance

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-----
| F. Kevin Feeney  WB2EMS          | COFFEE: That wonderful elixir |
|                               | that makes life possible      |
| EMAIL - kfeeney@helios.tn.cornell.edu | before noon.                  |
| CIS - 72237,2760                | -----|
| PACKET - WB2EMS@WF2A.NY.USA.NA    | Mother said there would be   |
|                               | days like this.              |
| Via SnailMail                    |                               |
| 468 Hines Road                   | But she never told me they   |
| Newfield, NY 14867               | would come so often.         |
| -----| -----|
| Without the Second Amendment, the rest of the Constitution is just paper. |
| -----| -----|
```

Date: Thu, 11 Mar 93 17:19:59 GMT
From: usc!wupost!gumby!destroyer!cs.ubc.ca!alberta!adec23!mark@network.UCSD.EDU
Subject: too darn big!
To: info-hams@ucsd.edu

>gcouger@olesun.okstate.edu (Gordon Couger) writes:
>My question is:
>Why do we have both if things are generally crossposted?
Because the articles can be filtered out of rec.radio.amateur.misc from your feed source or from your news reader by putting in a !rec.radio.info and because of the very STRONG sentiment that we do NOT remove the bulletins from rec.radio.amateur.misc, rec.radio.shortwave and rec.radio.cb. I defend what the people voted for here, if many of you feel that this should change, I recommend that you get involved actively in the rra-reorg mailing list run by Ian NOW, and if not there, once (and if) the RFD has been posted to news.groups.

>Now that we see this hasn't decreased the flow of informational bulletins
>significantly can we vote again?
This was never promised, what was promised is a mechanism that your site adminstrator can deal with to filter out the articles from your feed source, or you can filter in your news reader. And supply a mechanism that a listserver can use to tailor the feed to the listserverees.

Before, the only way to filter out the bulletins for those that wish was by setting up a kill file for every bulletins author and subject, harder to set

up, and a problem to set up properly. This was impossible before to read
just the bulletins ...

>It seems that it serves more to keep discussion out of bulletins than to keep
>bulletins out of discussion.

This is true, and a valued side effect ...

>Even the organizer of the new group has told me that cross posting is the
>right procedure.

Yes, allowing a smooth transition to a filtered group using the news feed
and news reader tools in your hands (well, not everything is in place for
the listservers yet, but be patient please). r.r.info would not have passed
(well, maybe that is too strong a word ...) if the cross post mechanism
was not presented ... Besides, if you look carefully, I still have a long
way to go to get cross posting working on many of the bulletins ...

Democracy, what a wonderfull tool :-) Ciao -- Mark

Date: Thu, 11 Mar 1993 21:43:27 GMT
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcs!
perry@network.UCSD.EDU
Subject: Tube Trivia: 811A
To: info-hams@ucsd.edu

OK, all you tube buffs, just exactly how tall is an 811A tube, minus the
pins? I want to stuff them into a tight space.

e-mail is fine.

Perry / AA0ET
perry@fc.hp.com

Date: Thu, 11 Mar 1993 12:03:19 MST
From: usc!zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!destroyer!cs.ubc.ca!
alberta!adec23!ve6mgs!rec-radio-info@network.UCSD.EDU
Subject: Uniden reply comments to FCC docket 93-01
To: info-hams@ucsd.edu

Here's a set of reply comments that make reference to some "interesting"
comments/requests by other spectrum users besides the cellular phone
providers. If anyone has any other replies on this docket, I'm sure
we'd all like to see what the industry response has been to the cellular
scan banner Notice of Proposed Rulemaking (NPRM) of the FCC.

FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C. 20554

In the matter of

Amendment of Parts 2 and 15 to)

ET Docket No. 93-1

Prohibit Marketing of Radio Scanners)

Capable of Intercepting Cellular)

Telephone Conversations)

REPLY COMMENTS OF

INTRODUCTION

1. Uniden America Corporation (hereinafter "Uniden")

respectfully submits its reply comments to the above

captioned NOTICE OF PROPOSED RULE MAKING ("NPRM").

DISCUSSION

2. Uniden has read all comments contained in the

Commission's Record Image Processing System as of February

23, 1993. Although many commentators addressed whether or not

the proposed NPRM met the objectives of "increas[ing] the

privacy protection of cellular telephone users...", generally

most commentators supported the proposals of the Commission.

Some of the supporting commentators had some parochial

exceptions or inclusions, which we will address.

3. Southwestern Bell Mobile Systems ("SBMS") in its comments

proposed that "the Commission should act now to include

in these amended rules proscription on scanners that tune

frequencies allocated to the Personal Communication Services

that will be effective as soon as that allocation is made."

In a similar proposal, Fleet Call, Inc. ("Fleet Call") stated

"the Commission should expand the applicability of its

proposals to prohibit scanners capable of tuning the

frequencies allocated to the SMR service." In the Telephone

Disclosure and Dispute Resolution Act ("Act") Pub. L 102-556,

the scope is limited to the domestic cellular radio

telecommunications service. Uniden strongly objects to any

attempt to broaden the restrictions beyond those detailed in

the Act, itself. To do so could set a dangerous precedent by

restricting the reception of frequency ranges which have been

historically and widely accepted as our fundamental right to monitor. In our comments, we did not address the merits of the Act with regard to the congressional mandate to the Commission. However, we believe that both SBMS and Fleet Call are proposing that the Commission establish restrictions well beyond the mandate of the Act. Uniden urges the Commission not to act favorably on these requests.

4. The Cellular Telecommunications Industry Association ("CTIA") has proposed a definition of "readily altered" which is overly restrictive, burdensome, and not required to accomplish the purposes of the Act. There is no way to make an electronic device totally tamperproof with regards to restricting the interception of cellular telephone frequencies, or any other frequency. A case in point is the cellular telephone itself. If a technically competent individual wants to modify a device to listen to other telephone calls, what unit would be better suited for this purpose? Some of the early cellular telephones were even able to monitor communications when programmed by the actual user. Therefore, in this area we continue to support the NPRM as written in the belief that it strikes a balance and reasonably accomplishes the requirements of the Act, without overly restricting manufacturers in the production of scanners for legitimate uses.

5. The Harris Corporation ("Harris") wishes an exemption to the proposed restrictions because they manufacture a device that purposefully intercepts cellular communications which is "expressly designed for law enforcement and cellular security uses." In their comments, Harris also offered additional wording to the proposed Section 15.121 which details their requested exemption. Uniden supports Harris in this endeavor and joins them in making this request.

6. The comments of Grove Enterprises, Inc. imply that the Commission has overstepped its authority by including frequency converters in the scope of this proceeding. It should be noted that frequency converters can be used with certain scanners in order to extend the coverage to include the cellular frequencies. Therefore, Uniden supports the wording in the NPRM that states that "[t]o allow such converters to be marketed would be inconsistent with the intent of the Act." Moreover, in our comments, we requested the Commission to require that frequency converters used with scanners that tune in the 800 MHz to 900 MHz band be authorized under the provisions of certification rather than notification. The application for equipment authorization

for certification contains more demonstrable exhibits than the simpler notification procedure.

CONCLUSION

7. Uniden reiterates its support of the Commission's proposal. As stated in its comments, the only exception to the NPRM as written is with the provisions for frequency converters as mentioned above as well as in our original comment.

Respectfully submitted

/signature/

James R. Haynes
Chief Engineer

UNIDEN AMERICA CORPORATION
Engineering Services Office
8707 North by Northeast Blvd.
Fishers, Indiana 46038

CERTIFICATE OF SERVICE

I, James R. Haynes, hereby certify that copies of the foregoing "Reply Comments" in Gen Docket No. 93-1 were mailed first-class, postage prepaid, to the following on this 5th day of March 1993.

/signature/

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Date: Fri, 12 Mar 1993 05:29:21 GMT
From: usc!elroy.jpl.nasa.gov!swrinde!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU
To: info-hams@ucsd.edu

References <14570688@hpnmdla.sr.hp.com>, <1993Mar11.085354.23100@ke4zv.uucp>,
<930311115428@nauvax.ucc.nau.edu>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: How do I ground the antenna?

In article <930311115428@nauvax.ucc.nau.edu> cvm@nauvax.ucc.nau.edu (Chris Michels) writes:

>

>I only have the feedline connected when I am using the radio, which I
>don't do if the weather looks at all bad. The rest of the time the end
>of the coax is disconnected and placed inside an 8-inch long glass bottle
>to insulate it from arcing to any possible ground.

>

>Am I correct to assume, that adding a suppressor would only give me
>additional protection when I am using the radio? Would you recommend
>putting a suppressor on this setup?

Ordinarily I'd say no, you don't need any more protection. However, after 20 years of clean living my station was struck on an overcast night. There wasn't any indication that a thunderstorm was brewing, just a light drizzle then BANG. So now I tell people to always use a suppressor. It can't hurt.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

End of Info-Hams Digest V93 #309
